

Oil-water Separators

Flow rates of 1,5, 3 and 6 l / s



- Rotomoulded in hdPE
- Conform EN 858-1:2002
- Hydrocarbon reject below 5 mg per liter
- Bypass optional
- Alarms for sediment and hydrocarbon levels optional
- Automatic shut-off when the hydrocarbon storage tank is full

 **CGH**
Belgium

Oil-water separators

The oil-water separators from CGH Belgium are conform to EN 858-1. By default, they are equipped with a polypropylene coalescence filter with a surface of 240 m²/m³. The separators are available with or without bypass. The Class 1 separators without bypass have a hydrocarbon discharge below 5 mg/l.

An automatic valve closes exit when the hydrocarbon storage tank is full. This tank as well as the sediment storage tank can optionally be fitted with a level alarm.

The separators have a robust body rotomoulded in hdPE, conceived for underground installation in the green area or traffic area of a service station. Both storage compartments are accessible via the central opening.



PSDC1.5



PSDC3



PSDC6

	PSDC1.5	PSDC3	PSDC6
Nominal flow rate	1,5 l/s	3 l/s	6 l/s
Terrain surface	1-40 m ²	40-110 m ²	111-220 m ²
Total volume	440 l	510 l	1280 l
Mud separator volume	330 l	310 l	700 l
Hydrocarbon storage volume	110 l	100 l	170 l
Hydrocarbon discharge	< 5 mg/l	< 5 mg/l	< 5 mg/l
Weight	55 kg	70 kg	100 kg
Rotomoulded in hdPE	Yes	Yes	Yes
Level alarms option	Yes	Yes	Yes
Bypass option	Yes	Yes	Yes
Dimensions L x W x H	92 x 64 x 135 cm	147 x 79 x 140 cm	165 x 120 x 150 cm
Diameters entry and exit	DN 110	DN 110	DN 160
Diameter manhole	510 mm	680 mm	780 mm

For higher volume and flow rates, from 10 to 80 l/s, other separator models are available. Contact us for more information.

Option: Bypass

The 3 and 6 l/s separators can be supplied with an optional bypass. During a heavy rain shower, the separator treats the first surface run-off, which typically contains the most oils, and then keeps treating its nominal flow volume, while all additional flow is going directly to the exit via the bypass.

The bypass increases the area that can be served by the separator, without increasing the separation capacity. Depending on the nature of the area and the local regulations, this partial treatment of the flood water can be acceptable. Parkings and areas where no fuel filling or dispensing is taking place are typical applications for bypassed oil separators..



PSDC3B

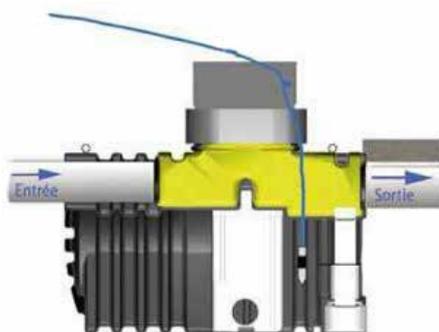


PSDC6B

	PSDC3B	PSDC6B
Nominal flow rate	3 l/s	6 l/s
Maximum flow rate	15 l/s	30 l/s
Terrain surface	1-555 m²	555-1111 m²
Weight	90 kg	130 kg
Diameters entry and exit	DN 160	DN 200

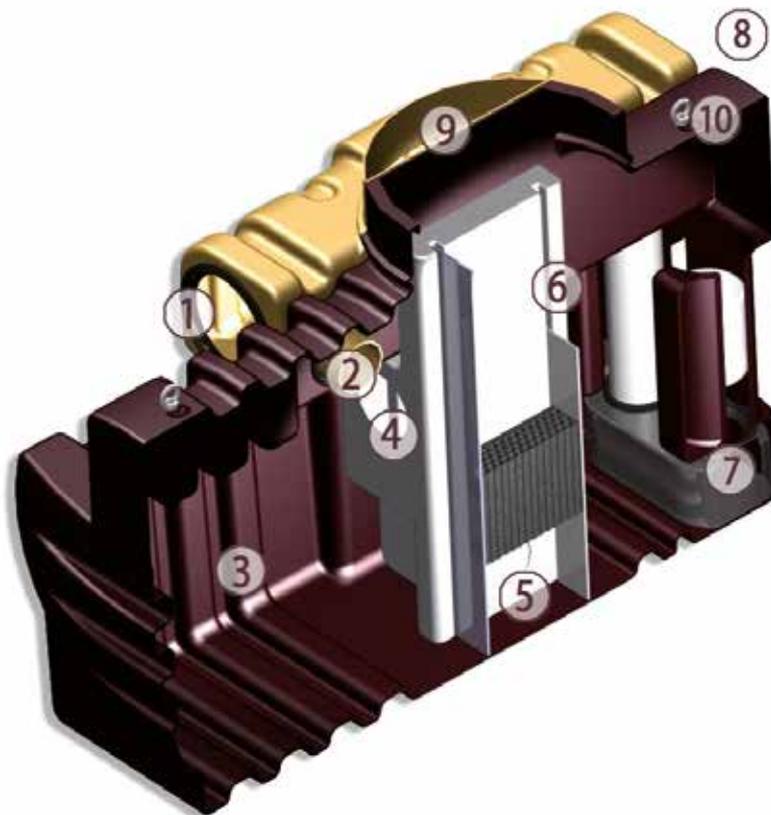
Option: Level alarm

The storage tanks for sediment and hydrocarbons can be equipped with an electronic level alarm. According to the EN 858-1 norm, the hydrocarbon level alarm is mandatory.



Operating principle

The oil-water separator functioning is based on simple and reliable physical factors like gravity and differences in specific weight, requiring no maintenance except for periodical removal of the collected mud and hydrocarbons via the wide manhole, minimum once a year.



Main components of an oil-water separator:

1. Runoff water entry
2. Water entry to the mud separator compartment
3. Mud separator with sedimentation zone and storage
4. Water passage through the filter compartment wall
5. Coalescence filter, forcing the suspended hydrocarbon droplets to form larger floating drops.
6. Storage tank for the separated hydrocarbons, floating on top of the water
7. Automatic shut-off valve, closed by the rising hydrocarbon level in the storage tank.
The floating valve is guided by the tank wall.
8. Water exit for treated water and bypass water
9. Manhole allowing easy access for emptying and cleaning of both compartments, and if present, the bypass. The installer can install a concrete ring as an access shaft, then install a cover suitable for the area of installation. Shaft and cover are not part of the delivery.
10. Lifting eyes for safe and easy handling during installation.



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